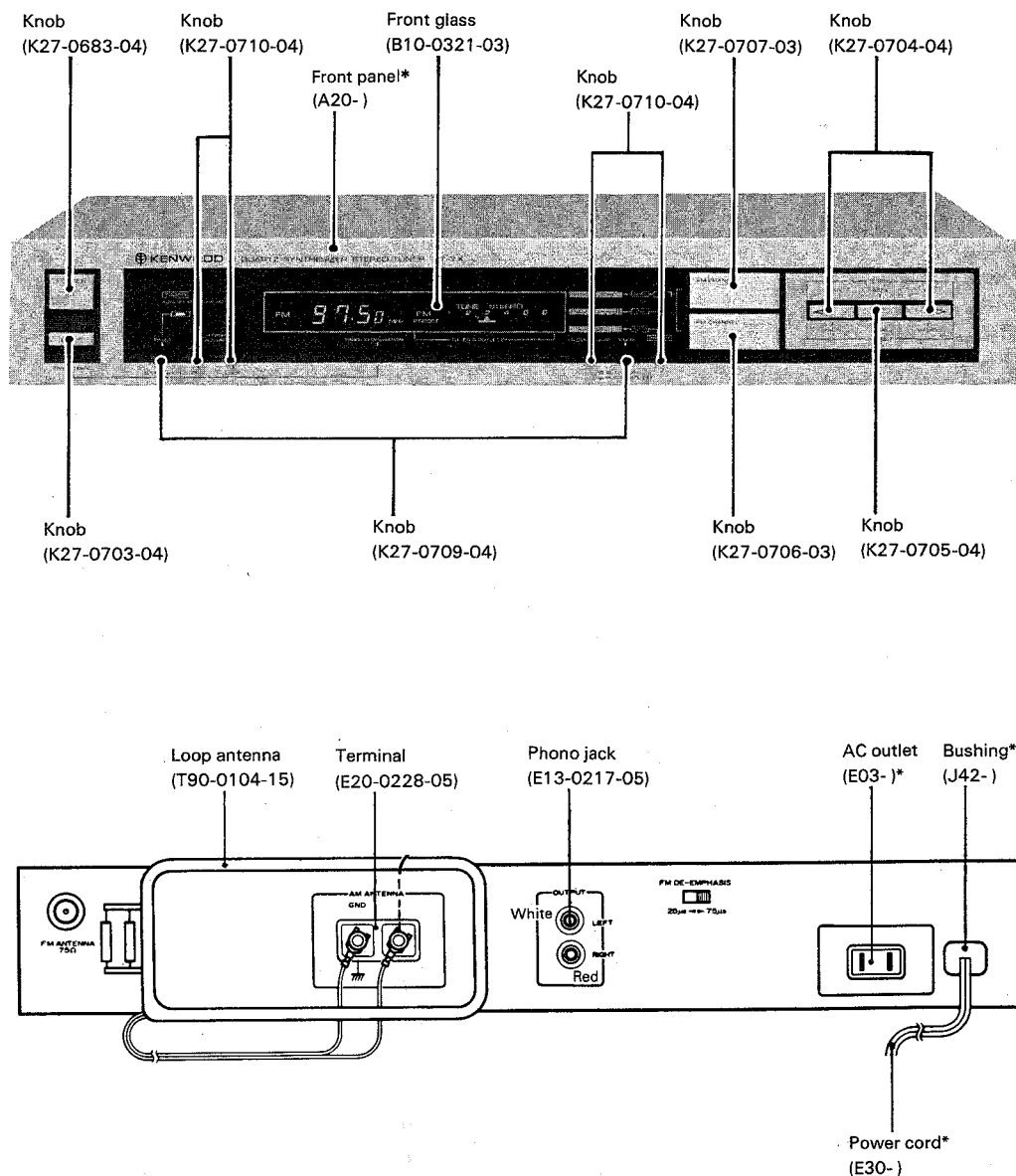
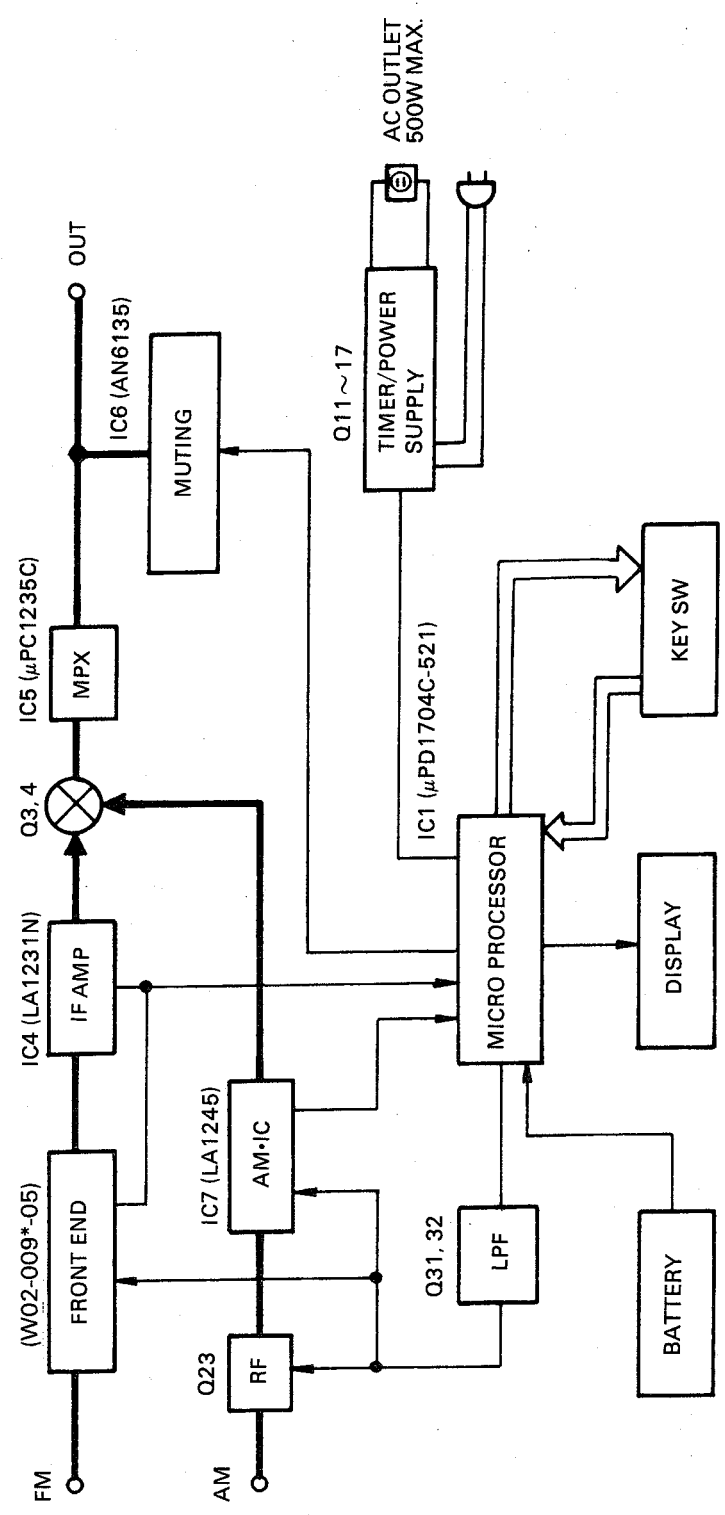


QUARTZ SYNTHESIZER TUNER



*Refer to Parts List on page 6.

BLOCK DIAGRAM



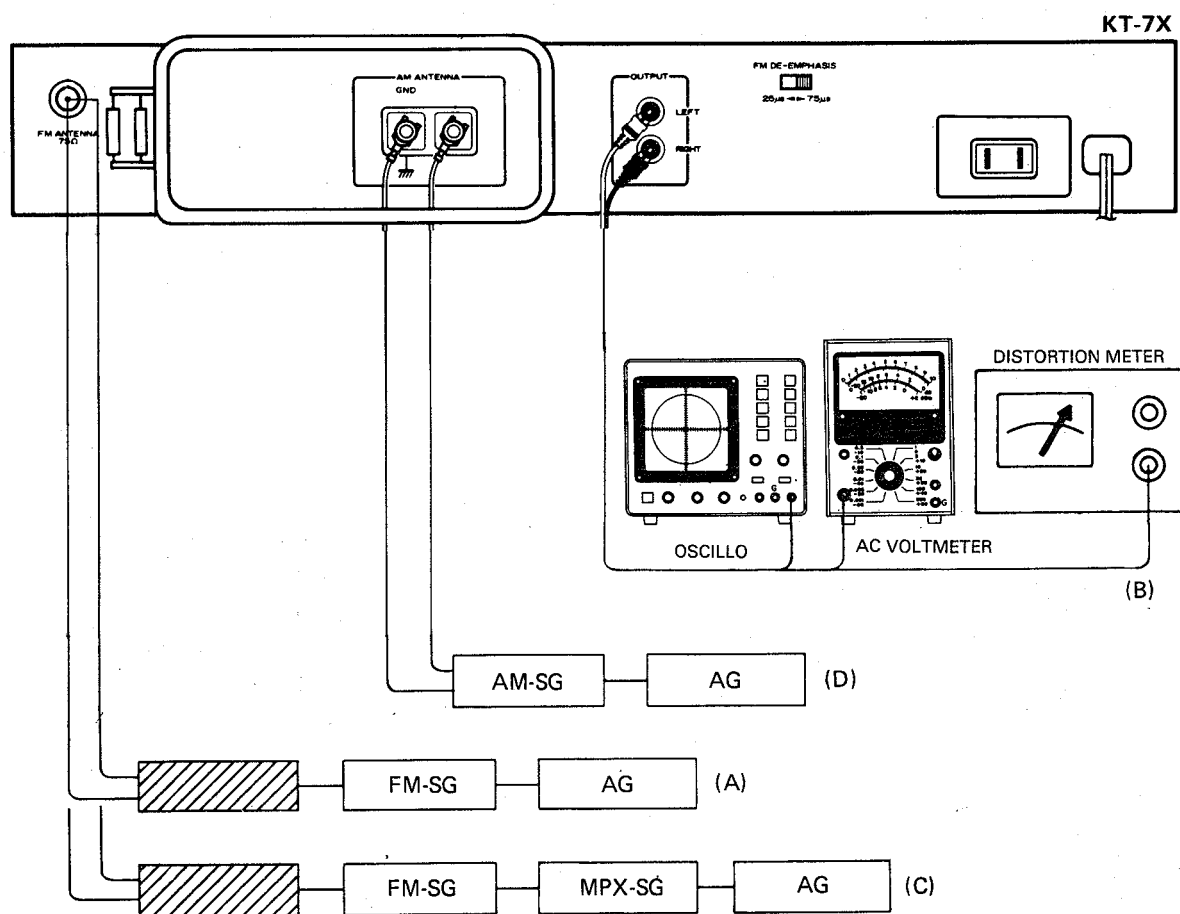
ADJUSTMENT/REGLAGES/ABGLEICH

TEST INSTRUMENT

APPAREILLAGE

PRÜFINSTRUMENTE

Oscilloscope	Oscilloscope	Oszilloskop	SCOPE
AM signal generator	Générateur MA	MW-Signalgenerator	AM-SG
FM signal generator	Générateur MF	UKW-Signalgenerator	FM-SG
Audio generator	Générateur audio fréquences	NF-Signalgenerator	AG
AC voltmeter	Voltmètre CA	Wechselspannungsmesser	
FM multiplex generator	Générateur multiplex stéréo	UKW-Multiplexgenerator	FM-MPX
Frequency counter	Fréquence-mètre	Frequenzzähler	
DC voltmeter	Voltmètre CC	Gleichspannungsmesser	
Distortion meter	Distorsionmètre	Klirrfaktormesser	
Dummy antenna	Antenna fictive	Antennennachbildung	



ADJUSTMENT

NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION							
1	DISCRIMINATOR (1)	(A) 100.1 MHz 1 kHz $\pm$ 75 kHz dev 60 dB (ANT input)	Connect a DC voltmeter across R11	MONO 100.1 MHz	L2	OV	(a)
2	DISCRIMINATOR (2)	(A) 100.1 MHz 1 kHz $\pm$ 75 kHz dev 60 dB (ANT input)	(B)	MONO 100.1 MHz	L3	Minimum distortion	
Repeat alignments 1 and 2 several times.							
3	VCO	(A) 100.1 MHz 0 dev 60 dB (ANT input)	Connect a frequency counter to the 9 pin of IC5 (T.P 15)	FM AUTO/MUTE 100.1 MHz	VR1	Frequency: 19.00 kHz	(b)
4	CLOCK	(A) 100.1 MHz 0 dev 60 dB (ANT input)	Connect a frequency counter to the 8 pin of FM Front end.	FM AUTO/MUTE 100.1 MHz	CT3	Frequency: 111.80000 MHz	(c)
5	SEPARATION	(C) 100.1 MHz 1 kHz $\pm$ 68.25 kHz dev Selector: L or R Pilot: $\pm$ 6.75 kHz dev 60 dB (ANT input)	(B)	FM AUTO/MUTE 100.1 MHz	VR2	Minimum crosstalk. A compromise adjustment may be required if left-to-right and right-to-left separations are unequal.	
6	DISTORTION (STEREO)	(C) 100.1 MHz 1 kHz $\pm$ 68.25 kHz dev Selector: L or R Pilot: $\pm$ 6.75 kHz dev 60 dB (ANT input)	(B)	FM AUTO/MUTE 100.1 MHz	T1 (Front end)	Minimum distortion	
AM-SECTION							
(1)	BAND EDGE	(D) 1620 kHz (1602kHz) 400 Hz, 30% mod	Connect a DC voltmeter to the 5 pin of FM Front end	1620 kHz (1602 kHz)	L6	21V	(d)
1620 kHz: for 10 kHz step area 1602 kHz: for 9 kHz step area							
(2)	RF ALIGNMENT (1)	(D) 630 kHz 400 Hz, 30% mod	(B)	630 kHz	L4	Maximum amplitude and symmetry of the oscilloscope display.	
(3)	RF ALIGNMENT (2)	(D) 1440 kHz 400 Hz, 30% mod	(B)	1440 kHz	CT1	Maximum amplitude and symmetry of the oscilloscope display.	
Repeat alignments (2) and (3) several times.							
(4)	IF TRANSFORMER	(D) 990 kHz 400 Hz, 30% mod	(B)	990 kHz	L9	Maximum amplitude and symmetry of the oscilloscope display.	
AM-LW SECTION (KT-7XL)							
①	RF ALIGNMENT (3)	(D) 160 kHz 400 Hz, 30% mod	(B)	160 kHz	L5	Maximum amplitude and symmetry of the oscilloscope display	
②	RF ALIGNMENT (4)	(D) 340 kHz 400 Hz, 30% mod	(B)	340 kHz	CT2	Maximum amplitude and symmetry of the oscilloscope display.	

REGLAGE

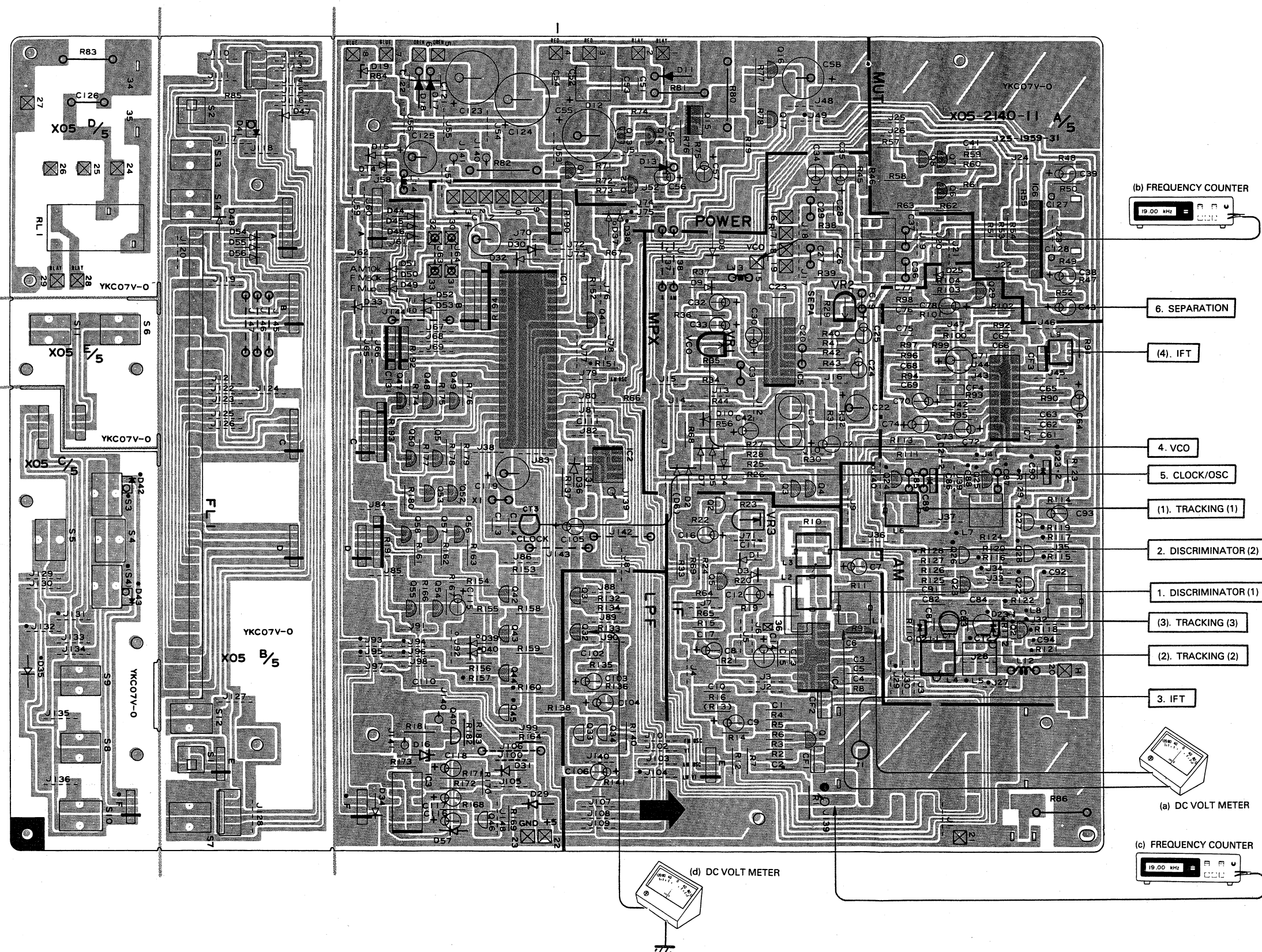
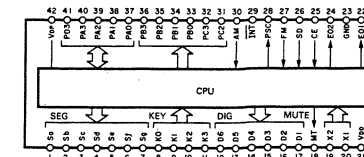
N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGALAGE DU AMPLI-TUNER	POINTS L'ALIGNMENT	ALIGNER POUR	FIG.
SECTION MF							
1	DISCRIMINATEUR (1)	(A) 100,1 MHz 1 kHz ± 75 kHz dév 60 dB (Entrée ANT)	Connecter un voltmètre CC sur R11	MONO 100,1 MHz	L2	OV	(a)
2	DISCRIMINATEUR (2)	(A) 100,1 MHz 1 kHz ± 75 kHz dév 60 dB (Entrée ANT)	(B)	MONO 100,1 MHz	L3	Distorsion minimale	
Répéter les points 1 et 2 plusieurs fois.							
3	OSCILLATEUR CONTROLE PAR LA TENSION	(A) 100,1 MHz 0 dév 60 dB (Entrée ANT)	Connecter un compteur de fréquence à T.P 15 (IC5, fiche 9)	FM AUTO/MUTE 100,1 MHz	VR1	Fréquence: 19,00 kHz	(b)
4	HORLOGE/OSC	(A) 100,1 MHz 0 dév 60 dB (ANT input)	Connecter un compteur de fréquence à OSC OUT. (fiche 8 du bout frontal.	FM AUTO MUTE 100,1 MHz	CT3	Fréquence: 111.80000 MHz	(c)
5	SEPARATION	(C) 100,1 MHz 1 kHz ± 68,25 kHz dév Selection: L ou R Signal pilote: ± 6,75 kHz dév 60 dB (Entrée ANT)	(B)	FM AUTO/MUTE 100,1 MHz	VR2	Diaphonie minimale. Un compromis de réglage peut être nécessaire si les séparations de gauche à droite et de droite à gauche sont inégales.	
6	DISTORSION (STEREO)	(C) 100,1 MHz 1 kHz ± 68,25 kHz dév Selection: L ou R Signal pilote: ± 6,75 kHz dév 60 dB (Entrée ANT)	(B)	FM AUTO/MUTE 100,1 MHz	T1 (Tête H.F.)	Distorsion minimale	
SECTION MA							
(1)	BORD DE BANDE	(D) 1620 kHz (1602 kHz) 400 Hz, 30% mod	Connecter un voltmètre CC au collecteur de Q32	1620 kHz (1602 kHz)	L6	21V	(d)
1620 kHz: pour zone de 10 kHz cran 1620 kHz: pour zone de 9 kHz cran							
(2)	ALIGNMENT H.T. (1)	(D) 630 kHz 400 Hz, 30% mod	(B)	600 kHz	L4	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
(3)	ALIGNMENT H.T. (2)	(D) 1440 kHz 400 Hz, 30% mod	(B)	1440 kHz	CT1	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
Répéter les points (2) et (3) plusieurs fois.							
(4)	TRANS-FORMATEUR F.I.	(D) 990 kHz 400 Hz, 30% mod	(B)	990 kHz	L9	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
SECTION MA-GO (KT-7XL)							
①	ALIGNMENT H.T. (3)	(D) 160 kHz 400 Hz, 30% mod	(B)	160 kHz	L5	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
②	ALIGNMENT H.T. (4)	(D) 340 kHz 400 Hz, 30% mod	(B)	340 kHz	CT2	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	

ABGLEICH

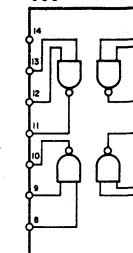
NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	RECEIVER-EINSTELLUNG	ABGLEICH-PUNKTE	ABGEICHEN FÜR	ABB.
UKW-EMPFANGSABTEILUNG							
1	DISKRIMINATOR (1)	(A) 100,1 MHz 1 kHz ± 75 kHz hub 60 dB (ANT-Eingang)	Einen Gleichspannungsmesser über R11 anschließen.	MONO 100,1 MHz	L2	OV	(a)
2	DISKRIMINATOR (2)	(A) 100,1 MHz 1 kHz ± 75 kHz Hub 60 dB (ANT-Eingang)	(B)	MONO 100,1 MHz	L3	Minimaler Kirrfaktor	
Abstimmungen 1 und 2 mehrere Male wiederholen.							
3	SPANNUNGS-GEREGELTER OSZILLATOR	(A) 100,1 MHz 0 Hub 60 dB (ANT-Eingang)	Einen Frequenzmesser an T.P 15 (IC5, Stift 9) anschließen.	FM AUTO/MUTE 100,1 MHz	VR1	Frequenz: 19,00 kHz	(b)
4	UHR/OSC	(A) 100,1 MHz 0 dev 60 dB (ANT-Eingang)	Einen Frequenzmesser an OSC OUT (Vorderende-Stift 8)	FM AUTO/MUTE 100,1 MHz	CT3	Frequenz: 111.80000 MHz	(c)
5	STEREO KANAL TRENNUNG	(C) 100,1 MHz 1 kHz ± 68,25 kHz Hub Wähler: L oder R Pilotton: ± 6,75 kHz Hub 60 dB (Entrée ANT)	(B)	FM AUTO/MUTE 100,1 MHz	VR2	Minimales Übersprechen. Eine Ausgleichregelung kann notwendig sein, falls links-zu-rechts und rechts-zu-links. Trennungen ungleich sind.	
6	KLIRRFAKTOR (STEREO)	(C) 100,1 MHz 1 kHz ± 68,25 kHz Hub Wähler: L oder R Pilotton: ± 6,75 kHz Hub 60 dB (ANT-Eingang)	(B)	FM AUTO/MUTE 100,1 MHz	T1 (Frontende)	Minimaler Klirrfaktor	
MW-EMPFANGSABTEILUNG							
(1)	BANDKANTE	(D) 1620 kHz (1602 kHz) 400 Hz, 30% mod	Einen Gleichstromspannungsmesser an den Kollektor von Q32 anschließen.	1620 kHz (1602 kHz)	L6	21V	(d)
1620 kHz: für der Zone vom 10 kHz-Kanalabstand 1602 kHz: für der Zone vom 9 kHz-Kanalabstand.							
(2)	HF-ABGLEICH (1)	(D) 630 kHz 400 Hz, 30% mod	(B)	630 kHz	L4	Maximale Amplitude und Symmetrie des Oszilloskopbildes	
(3)	HF-ABGLEICH (2)	(D) 1440 kHz 400 Hz, 30% mod	(B)	1440 kHz	CT1	Maximale Amplitude und Symmetrie des Oszilloskopbildes	
Abstimmungen (2) und (3) mehrere Male wiederholen.							
(4)	ZF-ÜBERTRAGER	(D) 990 kHz 400 Hz, 30% mod	(B)	990 kHz	L9	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	
LW EMPFANGSABTEILUNG (KT-7XL)							
①	HF-ABGLEICH (3)	(D) 160 kHz 400 Hz, 30% mod	(B)	160 kHz	L5	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	
②	HF-ABGLEICH (4)	(D) 340 kHz 400 Hz, 30% mod	(B)	340 kHz	CT2	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	

PC BOARD

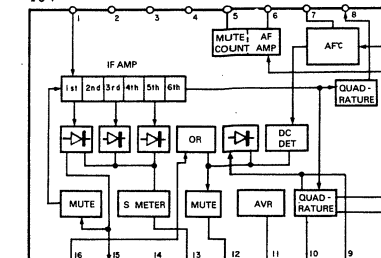
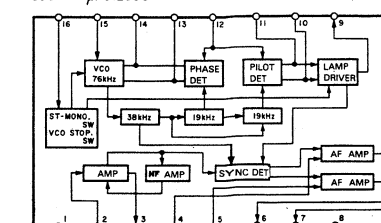
TUNER (X05-2140-11) Component side view

IC1 μ PD1704C-521

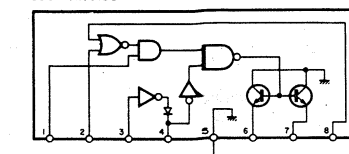
IC3



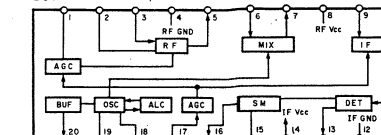
IC4

IC5 μ PC1235C

IC6 AN6135



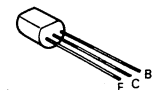
IC7



Refer to schematic for the value of capacitors and resistors.

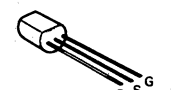
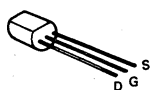
2SA733(A) (Q,P)
2SC945(A) (Q,P)
2SC1923
2SC2003

2SD330



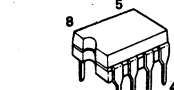
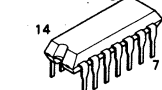
2SK163(M)

2SK61



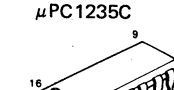
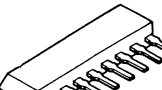
TC4011BP

μPB553AC



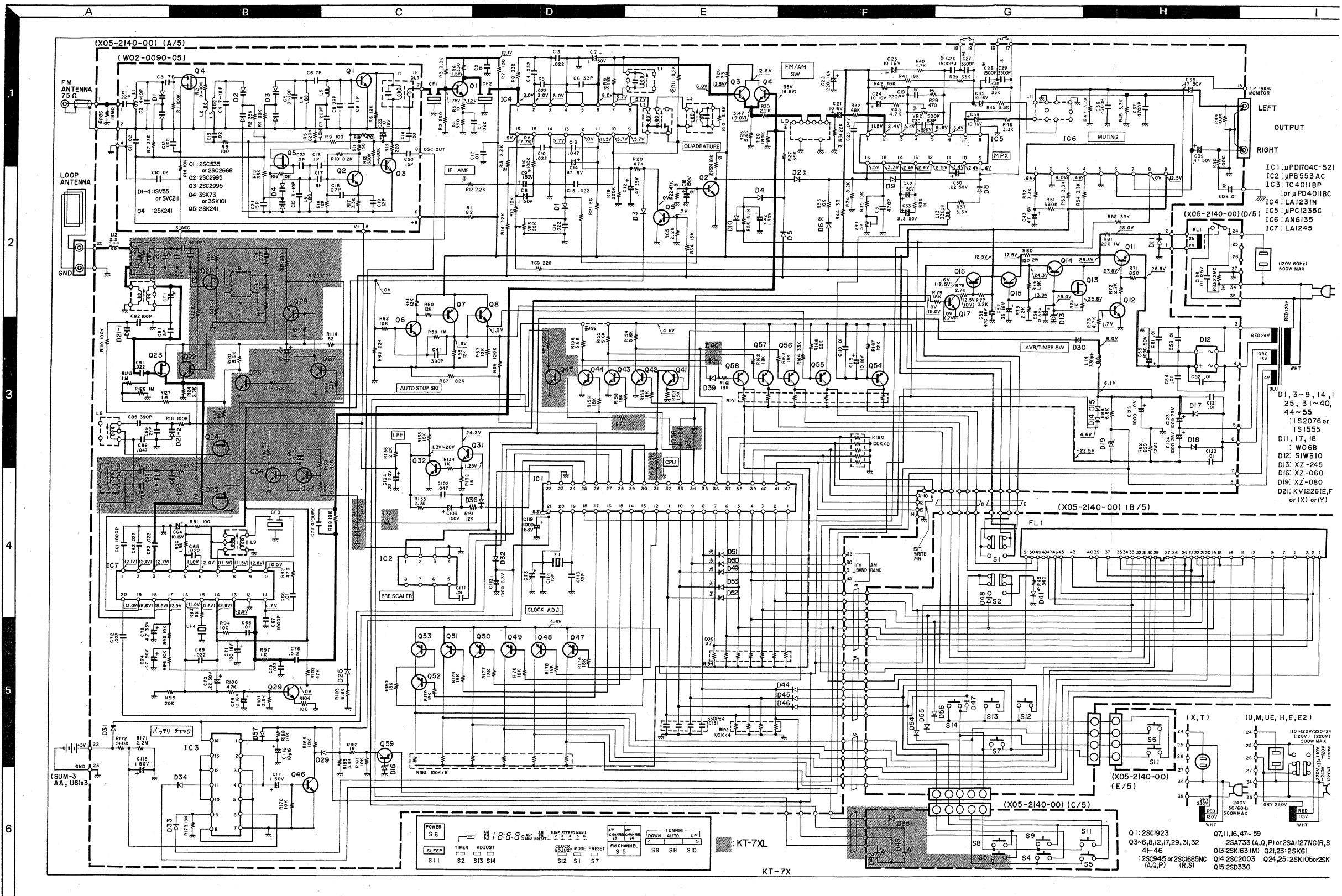
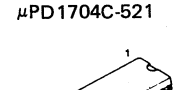
AN6135

LA1231N
μPC1235C



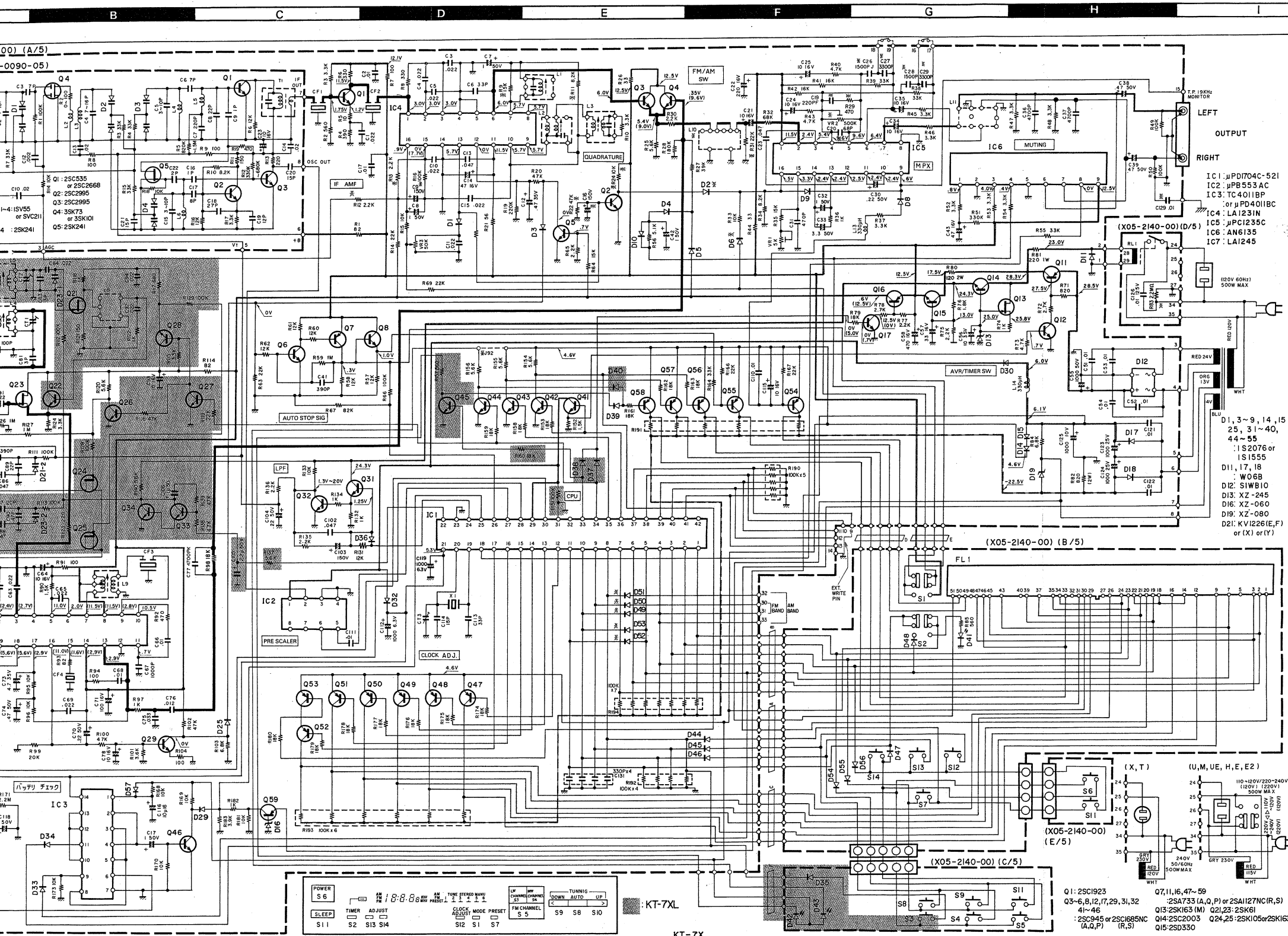
LA1245

μPD1704C-521



	C26,28	C77	R9	R11	R156	D6	R13	VR2	C20	C27	C29	D37,39	D50	D51	R83	R86	J10	J17,18	J40	J64	J92	TERMINAL		C9,	C129	D2	L10	Q2	R12,22,23,	R98	R86	
																						16,17,18,19	30,31	32,33	16,19				24,29,30,31			
X05-2140-11	2200p,J	10000p,K	15K	8.2K	5.6K	JAMP	JAMP	500K	YES	NO	NO	JAMP	NO	YES	YES	YES	YES	YES	YES	NO	YES	NO	NO	YES	NO	NO	NO	NO	NO	18K	YES	
X05-2140-81	2200p,J	10000p,K	15K	12K	5.6K	JAMP	JAMP	500K	YES	YES	YES	JAMP	YES	YES	NO	NO	YES	NO	YES	NO	YES	YES	YES	NO	NO	NO	NO	NO	NO	18K	NO	
X05-2140-71	1500p,J	5600p,K	15K	12K	5.6K	JAMP	JAMP	500K	YES	NO	NO	JAMP	YES	NO	NO	NO	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	12K	NO	
X05-2142-71	1500p,J	5600p,K	22K	12K	5.6K	1S2076	2.2K	50K	NO	NO	NO	JAMP	YES	NO	NO	NO	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	YES	YES	YES	12K	NO	
X05-2142-72	1500p,J	5600p,K	22K	12K	560	1S2076	2.2K	50K	NO	NO	NO	YES	YES	NO	NO	NO	NO	YES	NO	YES	NO	NO	NO	YES	NO	YES	YES	YES	YES	YES	12K	NO

DC voltages are measured by a input impedance.



Specifications

FM TUNER SECTION	
Usable Sensitivity (75Ω)	10.8 dBf (0.95 μV)
50 dB Quieting Sensitivity (75Ω)	
Mono	16.4 dBf (1.8 μV)
Stereo	38.4 dBf (23 μV)
Signal to Noise Ratio	
Mono	74 dB
Stereo	71 dB
Total Harmonic Distortion	
Mono at	
100 Hz	0.07%
1000 Hz	0.07%
6000 Hz	0.1%
50 Hz ~ 10000 Hz	0.1%
Stereo at	
100 Hz	0.15%
1000 Hz	0.09%
6000 Hz	0.15%
50 Hz ~ 10000 Hz	0.3%
Capture Ratio	1.0 dB
Alternate Channel Selectivity	60 dB
Stereo Separation	
1000 Hz	50 dB
50 Hz ~ 10000 Hz	40 dB
15000 Hz	36 dB
Frequency Response	
Ratio	30 Hz ~ 15000 Hz, +0.2 dB, -1.0 dB
Spurious Response Ratio	25, 31 ~ 40, 44 ~ 55, 1S2076 or 1S1555
Image Response Ratio	90 dB
IF Response Ratio	90 dB
AM Suppression Ratio	65 dB
Antenna Impedance	75Ω unbalanced & 300Ω balanced
FM Frequency Range	88 MHz ~ 108 MHz
Output Level/Impedance	
1000 Hz 100% Mod.	0.75V, 3.3 kΩ
AM TUNER SECTION	
Usable Sensitivity	10 μV
Signal to Noise Ratio	52 dB
Image Rejection	45 dB
Selectivity	30 dB
Output Level/Impedance	
400 Hz 30% Mod.	0.25V, 3.3 kΩ
GENERAL	
Power Requirements	60 Hz, 120V (U.S.A. and Canada Model) Model sold elsewhere incorporates switches to accommodate 50/60 Hz, 110-120/220-240V
Power Consumption	0.12A/14W
Dimensions	W: 440 mm (17-5/16") H: 74 mm (2-9/64") D: 324 mm (12-3/4")
Weight (Net)	4.0 kg (8.8 lb)

Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

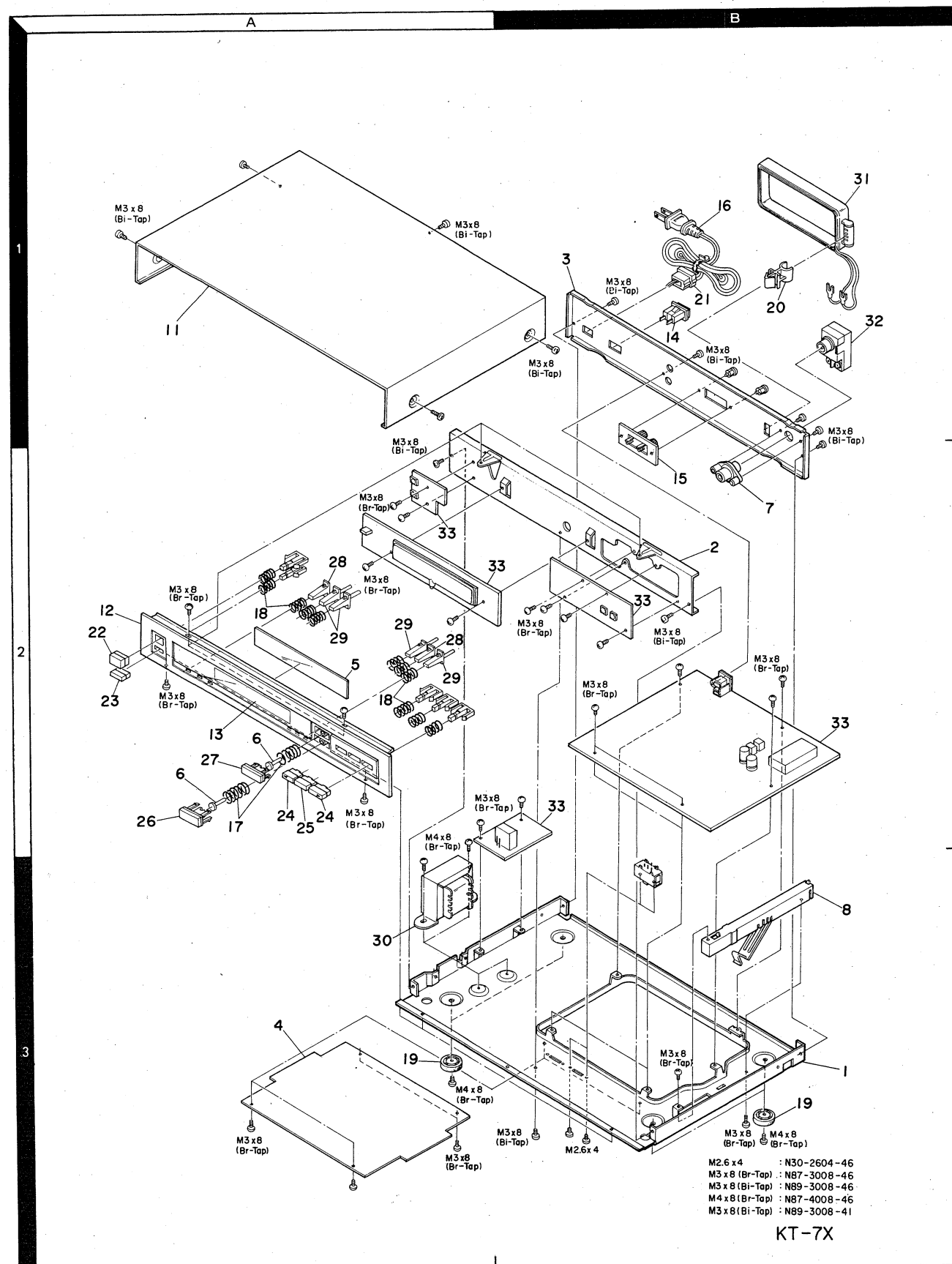
Kenwood poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

Kenwood strebt ständige Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

C77	R9	R11	R156	D6	R13	VR2	C20	C27	C29	D37,39	D50	D51	R83	R86	J10	J17,18	J40	J64	J92	TERMINAL			C9, 16,19	C129	D2	L10	Q2	R12,22,23, 24,29,30,31	R98	R86
																				16,17,18,19	30,31	32,33								
0000pK	15K	8.2K	5.6K	JAMP	JAMP	500K	YES	NO	NO	JAMP	NO	YES	YES	YES	YES	YES	YES	NO	YES	YES	NO	NO	NO	NO	NO	NO	NO	18K	YES	
0000pK	15K	12K	5.6K	JAMP	JAMP	500K	YES	YES	YES	JAMP	YES	YES	NO	NO	YES	NO	YES	NO	YES	YES	YES	YES	NO	NO	NO	NO	NO	18K	NO	
600pK	15K	12K	5.6K	JAMP	JAMP	500K	YES	NO	NO	JAMP	YES	NO	NO	NO	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO	NO	NO	12K	NO	
600pK	22K	12K	5.6K	1S2076	2.2K	50K	NO	NO	NO	JAMP	YES	NO	NO	NO	NO	YES	YES	YES	YES	YES	NO	NO	YES	YES	YES	YES	YES	12K	NO	
600pK	22K	12K	560	1S2076	2.2K	50K	NO	NO	NO	YES	YES	NO	NO	NO	NO	YES	NO	YES	NO	NO	NO	YES	NO	YES	YES	YES	YES	12K	NO	

DC voltages are measured by a VOM of 20 kΩ/V input impedance.

EXPLODED VIEW



KT-7X

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

PARTS LIST

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名/規格	Re- marks 備考
KT-7X UNIT			
1	3B	NO STOCK	
2	2B	NO STOCK	
3	1R	NO STOCK	
4	3A	NO STOCK	
5	2A	NO STOCK	
11	1A	A01-0422-02	METALLIC CABINET
12	2A	A20-3120-03	FRONT PANEL ASSY
12	2A	A20-3120-03	FRONT PANEL ASSY
12	2A	A20-3120-03	FRONT PANEL ASSY
12	2A	A20-3120-03	FRONT PANEL ASSY
12	2A	A20-3120-03	FRONT PANEL ASSY
12	2A	A20-3136-03	FRONT PANEL ASSY KT-7XL
12	2A	A20-3137-03	FRONT PANEL ASSY
-	-	B46-0055-30	WARRANTY CARD
-	-	B46-0060-00	WARRANTY CARD
-	-	B46-0061-30	WARRANTY CARD
-	-	B46-0062-30	WARRANTY CARD
-	-	B46-0062-30	WARRANTY CARD
-	-	B46-0063-13	WARRANTY CARD MILITARY
-	-	B46-0063-13	WARRANTY CARD MILITARY
-	-	B46-0064-20	WARRANTY CARD
-	-	B46-0078-03	WARRANTY CARD
-	-	B50-3484-00	INSTRUCTION MANUAL
-	-	B50-3484-00	INSTRUCTION MANUAL
-	-	B50-3484-00	INSTRUCTION MANUAL
-	-	B50-3485-00	INSTRUCTION MANUAL
-	-	B50-3485-00	INSTRUCTION MANUAL
-	-	B50-3486-00	INSTRUCTION MANUAL
-	-	B50-3488-00	INSTRUCTION MANUAL
-	-	B50-4301-00	INSTRUCTION MANUAL
-	-	B50-4302-00	INST. MANUAL KT-7XL
13	2A	B10-0321-03	FRONT GLASS
-	-	E03-0049-05	AC PLUG
-	-	E04-0006-05	CONNECTOR
-	-	E23-0015-04	EARTH LUG
-	-	E30-0505-05	AUDIO CORD
-	-	E03-0022-05	AC OUTLET
14	1B	E03-0036-05	AC OUTLET
14	1B	E03-0036-05	AC OUTLET
14	1B	E03-0036-05	AC OUTLET
14	1B	E03-0041-05	AC OUTLET
14	1B	E03-0046-05	AC OUTLET
14	1B	E03-0050-05	AC OUTLET
15	2B	E20-0228-05	TERMINAL BOARD
16	1B	E30-0181-05	POWER CORD
16	1B	E30-0459-05	POWER CORD
16	1B	E30-0545-05	POWER CORD
16	1B	E30-0545-05	POWER CORD
16	1B	E30-0545-05	POWER CORD
16	1B	E30-0587-15	POWER CORD
16	1B	E30-1341-05	POWER CORD
17	2A	G01-0453-04	COIL SPRING
18	2A	G01-0460-04	COIL SPRING
-	-	H25-0085-04	BAG
-	-	H01-3375-04	CARTON BOX
-	-	H01-3375-04	CARTON BOX
-	-	H01-3375-04	CARTON BOX
-	-	H01-3375-04	CARTON BOX
-	-	H01-3375-04	CARTON BOX

K: USA

P: Canada

T: England

E: Scandinavia and Europe

S: South Africa

X: Australia

H: Audio Club

U: PX (Far East, Hawaii)

UE: AAFES (Europe)

M: Other Areas

PARTS LIST

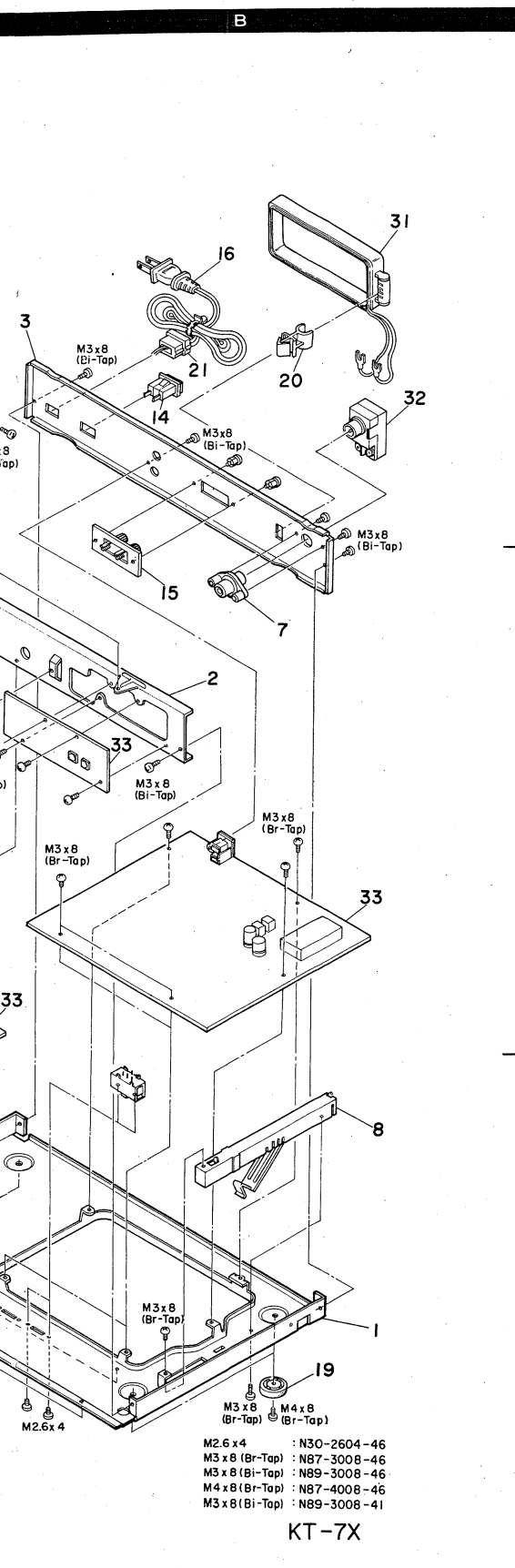
Ref. No. 参照番号	Parts No. 部品番号	Description 部品名/規格	Re- marks 備考	Ref. No. 参照番号
-	H01-3376-04	CARTON BOX	*T	C14
-	H01-3377-04	CARTON BOX KT-7XL	*E	C15
-	H10-1600-02	POLYSTYRENE FIXTURE		C16
-	H20-0452-04	COVER		C17
-	H25-0078-04	BAG (235X315)		C19
19	3B	J02-0118-04	FOOT	C20
20	1B	J19-0626-02	HOLDER	C21
21	1B	J42-0083-05	BUSHING	C22
22	2A	K27-0683-04	KNOB (POWER)	C23
23	2A	K27-0703-04	KNOB (SLEEP)	C24 ,25
24	2A	K27-0704-04	KNOB (UP/DOWN)	C26
25	2A	K27-0705-04	KNOB (AUTO)	C26
26	2A	K27-0706-03	KNOB (FM)	C27
27	2A	K27-0707-03	KNOB (AM)	C28
27	2A	K27-0708-03	KNOB (LW-MW)	C28
28	2A	K27-0709-04	KNOB (TIMER)	C29
29	2A	K27-0710-04	KNOB (ADJ.)	C30
30	3A	L01-2551-05	POWER TRANSFORMER	C31
30	3A	L01-2551-05	POWER TRANSFORMER	C32
30	3A	L01-2554-05	POWER TRANSFORMER	C33
30	3A	L01-2554-05	POWER TRANSFORMER	C34 ,35
30	3A	L01-2554-05	POWER TRANSFORMER	C36 ,37
30	3A	L01-2554-05	POWER TRANSFORMER	C38 ,39
30	3A	L01-2554-05	POWER TRANSFORMER	C41
30	3A	L01-2554-05	POWER TRANSFORMER	C42
31	1B	S31-2053-05	SLIDE SWITCH (POWER)	C43
31	1B	S31-2053-05	SLIDE SWITCH (POWER)	C51 -54
31	1B	S31-2053-05	SLIDE SWITCH (POWER)	C55
32	1B	S31-2057-05	SLIDE SWITCH (CH-STEP)	C56
32	1B	S31-2057-05	SLIDE SWITCH (CH-STEP)	C57
32	1B	S31-2057-05	SLIDE SWITCH (CH-STEP)	C58
32	1B	S31-2057-05	SLIDE SWITCH (CH-STEP)	C61
33	1B	S31-2061-05	SLIDE SWITCH (EMPHASIS)	C62 ,63
33	1B	S31-2061-05	SLIDE SWITCH (EMPHASIS)	C64
33	1B	S31-2061-05	SLIDE SWITCH (EMPHASIS)	C65
-	T90-0202-05	FM INDOOR ANTENNA		C66
34	1B	T90-0104-15	LOOP ANTENNA	C67
35	1B	T90-0122-05	ANTENNA ADP.	C68
36	2B	X05-2140-11	TUNER PCB ASSY	C69
36	2B	X05-2140-11	TUNER PCB ASSY	C70
36	2B	X05-2140-71	TUNER PCB ASSY	C71
36	2B	X05-2140-81	TUNER PCB ASSY	C72
36	2B	X05-2140-81	TUNER PCB ASSY	C73
36	2B	X05-2140-81	TUNER PCB ASSY	C74
36	2B	X05-2140-81	TUNER PCB ASSY	C75
36	2B	X05-2142-71	TUNER PCB ASSY	C76
36	2B	X05-2142-72	TUNER PCB ASSY KT-7XL	C77
36	2B	X05-2142-72	TUNER PCB ASSY KT-7XL	C78
TUNER (X05-214*-**)				C81
D41	B30-0198-05	LAMP		C82
D42 ,43	B30-0241-05	LAMP		C83
CT1	C05-0302-05	TRIMMER CAPACITOR		C84
C1	C91-0085-05	CERAMIC 0.022UF N		C85
CT2	C05-0301-05	TRIMMER CAPACITOR		C86
C2	C91-0083-05	CERAMIC 0.01UF N		C87
CT3	C05-0302-05	TRIMMER CAPACITOR		C88
C3 -5	C91-0085-05	CERAMIC 0.022UF N		C89
C6	C71-1733-05	CERAMIC 33PF J		C90
C7 -9	C24-1710-57	ELECTRO 1UF 50WV		C91
C10 ,11	C91-0085-05	CERAMIC 0.022UF N		C92
C12	C24-1747-47	ELECTRO 0.47UF 50WV		C93
C13	C55-1747-38	CERAMIC 0.047UF Z		C94

K: X05-2140-11

U: X05-2140-81

X: X05-2140-71

E: X05-2142-71



Parts without **Parts No.** are not supplied.
Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

PARTS LIST

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名 / 規格	Remarks 備考
KT-7X UNIT			
1 3B	NO STOCK	MAIN CHASSIS	
2 2B	NO STOCK	SUB PANEL	
3 1R	NO STOCK	REAR PANEL	
4 3A	NO STOCK	BOTTOM PLATE	
5 2A	NO STOCK	FILTER	
11 1A	A01-0422-02	METALLIC CABINET	*
12 2A	A20-3120-03	FRONT PANEL ASSY	*K
12 2A	A20-3120-03	FRONT PANEL ASSY	PU
12 2A	A20-3120-03	FRONT PANEL ASSY	MH
12 2A	A20-3120-03	FRONT PANEL ASSY	UE
12 2A	A20-3120-03	FRONT PANEL ASSY	XE
12 2A	A20-3136-03	FRONT PANEL ASSY KT-7XL	*E
12 2A	A20-3137-03	FRONT PANEL ASSY	*T
-	B46-0055-30	WARRANTY CARD	P
-	B46-0060-00	WARRANTY CARD	T
-	B46-0061-30	WARRANTY CARD	UH
-	B46-0062-30	WARRANTY CARD	K
-	B46-0062-30	WARRANTY CARD	UE
-	B46-0063-13	WARRANTY CARD MILITARY	UH
-	B46-0063-13	WARRANTY CARD MILITARY	UE
-	B46-0064-20	WARRANTY CARD	X
-	B46-0078-03	WARRANTY CARD	E
-	B50-3484-00	INSTRUCTION MANUAL	*K
-	B50-3484-00	INSTRUCTION MANUAL	UH
-	B50-3484-00	INSTRUCTION MANUAL	UE
-	B50-3485-00	INSTRUCTION MANUAL	*P
-	B50-3485-00	INSTRUCTION MANUAL	MX
-	B50-3486-00	INSTRUCTION MANUAL	*M
-	B50-3488-00	INSTRUCTION MANUAL	*E
-	B50-4301-00	INSTRUCTION MANUAL	*T
-	B50-4302-00	INST. MANUAL KT-7XL	*E
13 2A	B10-0321-03	FRONT GLASS	*
-	E03-0049-05	AC PLUG	T
-	E04-0006-05	CONNECTOR	
-	E23-0015-04	EARTH LUG	
-	E30-0505-05	AUDIO CORD	
14 1B	E03-0022-05	AC OUTLET	E
14 1B	E03-0036-05	AC OUTLET	KU
14 1B	E03-0036-05	AC OUTLET	MH
14 1B	E03-0036-05	AC OUTLET	UE
14 1B	E03-0041-05	AC OUTLET	P
14 1B	E03-0048-05	AC OUTLET	T
14 1B	E03-0050-05	AC OUTLET	X
15 2B	E20-0228-05	TERMINAL BOARD	
16 1B	E30-0181-05	POWER CORD	KP
16 1B	E30-0459-05	POWER CORD	E
16 1B	E30-0545-05	POWER CORD	UH
16 1B	E30-0545-05	POWER CORD	H
16 1B	E30-0545-05	POWER CORD	UE
16 1B	E30-0587-15	POWER CORD	T
16 1B	E30-1341-05	POWER CORD	X
17 2A	G01-0453-04	COIL SPRING	
18 2A	G01-0460-04	COIL SPRING	*
-	H25-0085-04	BAG	
-	H01-3375-04	CARTON BOX	*K
-	H01-3375-04	CARTON BOX	PU
-	H01-3375-04	CARTON BOX	MH
-	H01-3375-04	CARTON BOX	UE
-	H01-3375-04	CARTON BOX	XE

K: USA
P: Canada
T: England
E: Scandinavia and Europe
S: South Africa

X: Australia
H: Audio Club
U: PX (Far East, Hawaii)
UE: AAFES (Europe)
M: Other Areas

PARTS LIST

Ref. No.	Parts No.	Description	Remarks
参照番号	部品番号	部品名 / 規格	備考
-	H01-3376-04	CARTON BOX	*T
-	H01-3377-04	CARTON BOX KT-7XL	*E
-	H10-1600-02	POLYSTYRENE FIXTURE	
-	H20-0452-04	COVER	
-	H25-0078-04	BAG (235X315)	
19 3B	J02-0118-04	FOOT	
20 1B	J19-0626-02	HOLDER	
21 1B	J42-0083-05	BUSHING	
22 2A	K27-0683-04	KNOB (POWER)	*
23 2A	K27-0703-04	KNOB (SLEEP)	*
24 2A	K27-0704-04	KNOB (UP,DOWN)	*
25 2A	K27-0705-04	KNOB (AUTO)	*
26 2A	K27-0706-03	KNOB (FM)	*
27 2A	K27-0707-03	KNOB (AM)	*
27 2A	K27-0708-03	KNOB (LW-MW)	*
28 2A	K27-0709-04	KNOB (TIMER)	*
29 2A	K27-0710-04	KNOB (ADJ.;)	*
30 3A	L01-2551-05	POWER TRANSFORMER	*K
30 3A	L01-2551-05	POWER TRANSFORMER	P
30 3A	L01-2554-05	POWER TRANSFORMER	*U
30 3A	L01-2554-05	POWER TRANSFORMER	MH
30 3A	L01-2554-05	POWER TRANSFORMER	UE
30 3A	L01-2554-05	POWER TRANSFORMER	XT
30 3A	L01-2554-05	POWER TRANSFORMER	E
31 1B	S31-2053-05	SLIDE SWITCH (POWER)	UM
31 1B	S31-2053-05	SLIDE SWITCH (POWER)	HE
31 1B	S31-2053-05	SLIDE SWITCH (POWER)	UE
32 1B	S31-2057-05	SLIDE SWITCH (CH-STEP)	UM
32 1B	S31-2057-05	SLIDE SWITCH (CH-STEP)	HP
32 1B	S31-2057-05	SLIDE SWITCH (CH-STEP)	UE
32 1B	S31-2057-05	SLIDE SWITCH (CH-STEP)	K
33 1B	S31-2061-05	SLIDE SWITCH (EMPHASIS)	UM
33 1B	S31-2061-05	SLIDE SWITCH (EMPHASIS)	H
33 1B	S31-2061-05	SLIDE SWITCH (EMPHASIS)	UE
-	T90-0202-05	FM INDOOR ANTENNA	
34 1B	T90-0104-15	LOOP ANTENNA	
35 1B	T90-0122-05	ANTENNA ADP.	
36 2B	X05-2140-11	TUNER PCB ASSY	*K
36 2B	X05-2140-11	TUNER PCB ASSY	P
36 2B	X05-2140-71	TUNER PCB ASSY	*X
36 2B	X05-2140-81	TUNER PCB ASSY	*U
36 2B	X05-2140-81	TUNER PCB ASSY	MH
36 2B	X05-2140-81	TUNER PCB ASSY	UE
36 2B	X05-2142-71	TUNER PCB ASSY	*E
36 2B	X05-2142-72	TUNER PCB ASSY KT-7XL	*T
36 2B	X05-2142-72	TUNER PCB ASSY KT-7XL	E
TUNER (X05-214*-**)			
D41	B30-0198-05	LAMP	
D42 43	B30-0241-05	LAMP	
CT1	C05-0302-05	TRIMMER CAPACITOR	
C1	C91-0085-05	CERAMIC 0.022UF N	
CT2	C05-0301-05	TRIMMER CAPACITOR	
C2	C91-0083-05	CERAMIC 0.01UF N	
CT3	C05-0302-05	TRIMMER CAPACITOR	
C3 -5	C91-0085-05	CERAMIC 0.022UF N	
C6	C71-1733-05	CERAMIC 33PF J	
C7 -9	C24-1716-57	ELECTRO 1UF 50wv	
C10 11	C91-0085-05	CERAMIC 0.022UF N	
C12	C24-1747-47	ELECTRO 0.47UF 50wv	
C13	C55-1747-38	CERAMIC 0.047UF Z	

K: X05-2140-11
U: X05-2140-81
X: X05-2140-71
E: X05-2142-71

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名 / 規格	Re- marks 備考
C14	C24-1247-67	ELECTRO 47UF	16wv
C15	C91-0085-05	CERAMIC 0.022UF	N
C16	C24-1710-57	ELECTRO 1UF	50wv
C17	C91-0083-05	CERAMIC 0.01UF	N
C19	C71-1722-15	CERAMIC 220PF	J
C20	C71-1768-05	CERAMIC 68PF	J
C21	C24-1210-67	ELECTRO 10UF	16wv
C22	C24-1222-77	ELECTRO 220UF	16wv
C23	C46-1747-36	MYLAR 0.047UF	K
C24 ,25	C24-1210-67	ELECTRO 10UF	16wv
C26	C46-1715-25	MYLAR 0.0015UF	J
C26	C46-1727-25	MYLAR 0.0027UF	J
C27	C46-1733-25	MYLAR 0.0033UF	J
C28	C46-1715-25	MYLAR 0.0015UF	J
C28	C46-1727-25	MYLAR 0.0027UF	J
C29	C46-1733-25	MYLAR 0.0033UF	J
C30	C24-1722-47	ELECTRO 0.22UF	50wv
C31	C47-1747-15	POLYSTY 470PF	J
C32	C24-1710-57	ELECTRO 1UF	50wv
C33	C24-1733-57	ELECTRO 3.3UF	50wv
C34 ,35	C24-1210-67	ELECTRO 10UF	16wv
C36 ,37	C52-1747-26	CERAMIC 0.0047UF	K
C38 ,39	C24-1747-47	ELECTRO 0.47UF	50wv
C41	C71-1739-15	CERAMIC 390PF	J
C42	C24-1710-57	ELECTRO 1UF	50wv
C43	C24-1247-67	ELECTRO 47UF	16wv
C51 -54	C55-1710-38	CERAMIC 0.01UF	Z
C55	C24-1710-87	ELECTRO 1000UF	50wv
C56	C24-6510-67	ELECTRO 10UF	35wv
C57	C24-1233-67	ELECTRO 33UF	16wv
C58	C24-1247-77	ELECTRO 470UF	16wv
C61	C53-1710-27	CERAMIC 0.001UF	M
C62 ,63	C91-0085-05	CERAMIC 0.022UF	N
C64	C24-1210-67	ELECTRO 10UF	16wv
C65	C91-0085-05	CERAMIC 0.022UF	N
C66	C91-0083-05	CERAMIC 0.01UF	N
C67	C53-1710-27	CERAMIC 0.001UF	M
C68	C91-0083-05	CERAMIC 0.01UF	N
C69	C91-0085-05	CERAMIC 0.022UF	N
C70	C24-1722-47	ELECTRO 0.22UF	50wv
C71	C24-1210-77	ELECTRO 100UF	16wv
C72	C91-0085-05	CERAMIC 0.022UF	N
C73	C24-6547-57	ELECTRO 4.7UF	35wv
C74	C24-1747-47	ELECTRO 0.47UF	50wv
C75	C46-1733-36	MYLAR 0.033UF	K
C76	C46-1712-36	MYLAR 0.012UF	K
C77	C46-1710-36	MYLAR 0.01UF	K
C78	C24-1210-67	ELECTRO 10UF	16wv
C81	C71-1703-01	CERAMIC 3PF	C
C82	C91-0085-05	CERAMIC 0.022UF	N
C83	C71-1703-01	CERAMIC 3PF	C
C84	C91-0085-05	CERAMIC 0.022UF	N
C85	C47-1739-15	POLYSTY 390PF	J
C86	C55-1747-38	CERAMIC 0.047UF	Z
C87	C47-1712-15	POLYSTY 120PF	J
C88	C55-1747-38	CERAMIC 0.047UF	Z
C89	C71-1722-05	CERAMIC 22PF	J
C90	C71-1747-05	CERAMIC 47PF	J
C91	C74-1710-15	CERAMIC 100PF	J
C92	C91-0085-05	CERAMIC 0.022UF	N
C93	C24-1210-67	ELECTRO 10UF	16wv
C94	C91-0085-05	CERAMIC 0.022UF	N

C93	C24-1210-67	ELECTRO 10UF	16WV
C94	C91-0085-05	CERAMIC 0.022UF	N

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名 / 規格	Re- marks 備考
C102	C46-1747-36	MYLAR 0.047UF K	
C103	C24-1710-57	ELECTRO 1UF 50WV	
C104	C25-1722-47	LL-ELEC 0.22UF 50WV	
C105	C24-1722-57	ELECTRO 2.2UF 50WV	
C106	C24-1710-57	ELECTRO 1UF 50WV	
C110,111	C91-0083-05	CERAMIC 0.01UF N	
C112	C24-0810-87	ELECTRO 1000UF 6.3WV	
C113	C71-1733-05	CERAMIC 33PF J	
C114	C71-1715-05	CERAMIC 15PF J	
C115,116	C24-1210-67	ELECTRO 10UF 16WV	
C117,118	C24-1710-57	ELECTRO 1UF 50WV	
C119	C24-0810-87	ELECTRO 1000UF 6.3WV	
C121,122	C55-1710-38	CERAMIC 0.01UF Z	
C123,124	C24-1410-87	ELECTRO 1000UF 25WV	
C125	C24-1010-87	ELECTRO 1000UF 10WV	
C126	C91-0079-05	CERAMIC 0.01UF AC125V	
C129	C55-1710-38	CERAMIC 0.01UF Z	
-	E23-0104-05	TERMINAL	
101 2B	E13-0217-05	PHONO JACK	
CF1	L72-0130-05	CERAMIC FILTER	TE
CF1 ,2	L72-0140-05	CERAMIC FILTER	TE
CF2	L72-0135-05	CERAMIC FILTER	
CF3	L72-0099-05	CERAMIC FILTER	
CF4	L72-0096-05	CERAMIC FILTER	
L1	L39-0089-05	COIL	
L2	L30-0373-05	IFT	
L3	L30-0374-05	IFT	
L4	L31-0472-05	RF COIL	
L5	L31-0473-05	RF COIL KT-7XL	TE
L6	L32-0267-05	OSCILLATING COIL	
L7	L32-0268-05	OSCILLATING COIL KT-7XL	TE
L8	L79-0074-05	FILTER KT-7XL	TE
L9	L30-0362-05	IFT	
L10	L79-0125-05	FILTER	
L11	L79-0154-05	FILTER	
L12	L40-2292-45	INDUCTOR	
L13 ,14	L40-3311-12	INDUCTOR	
X1	L77-0573-05	CRYSTAL RESONATOR	
C131	R90-0190-05	MULTIPLE COMPONENTS	
R7	R42-1210-15	FL-PROOF RD100 J 2E	
R21	R42-1256-05	FL-PROOF RD56 J 2E	
R44	R42-1233-05	FL-PROOF RD33 J 2E	
R80	R47-5512-15	FL-PROOF RS120 J 3D	
R81	R47-5422-15	FL-PROOF RS220 J 3A	
R82	R47-5582-15	FL-PROOF RS820 J 3D	
R83	R92-0173-05	RC 2.2M M 2H	
R86	R40-8318-58	RC 1.8M M 2H	
R91	R42-1210-15	FL-PROOF RD100 J 2E	
R190,191	R90-0176-05	MULTIPLE COMPONENTS	
R192	R90-0140-05	MULTIPLE COMPONENTS	
R193	R90-0173-05	MULTIPLE COMPONENTS	
R194	R90-0132-05	MULTIPLE COMPONENTS	
VR1	R12-2302-05	TRIMMING POTENTIOMETER	
VR2 ,3	R12-4302-05	TRIMMING POTENTIOMETER	
VR2	R12-5303-05	TRIMMING POTENTIOMETER	
VR3	R12-4302-05	TRIMMING POTENTIOMETER	
RL1	S51-1034-05	RELAY	
S1 ,2	S40-2142-05	PUSH SWITCH	
S3 -14	S40-1054-05	PUSH SWITCH	TE
S4 -14	S40-1054-05	PUSH SWITCH	
D1 -10	V11-0271-05	1S2076	

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名 / 規格	Re- marks 備考
D11	V11-0295-05	W068	
D12	V11-1301-60	S1W810	
D13	V11-4105-10	XZ-245	
D14 ,15	V11-0271-05	1S2076	
D16	V11-4101-20	XZ-060	
D17 ,12	V11-0295-05	W068	
D19	V11-4163-46	XZ-080	
D21	V30-7702-20	KV1226(EF)	TE
D23	V30-7702-20	KV1226(EF)	
D25	V11-0271-05	1S2076	
D29 -34	V11-0271-05	1S2076	TE
D29 -40	V11-0271-05	1S2076	
D36	V11-0271-05	1S2076	
D44 -51	V11-0271-05	1S2076	
D51	V11-0271-05	1S2076	
D54 -57	V11-0271-05	1S2076	TE
D54 -56	V11-0271-05	1S2076	
FL1	V40-4400-60	FIP9AM8	
IC1	V30-0689-10	UPD1704C-521	*
IC2	V30-0626-10	UP8553AC	
IC3	V30-0301-70	TC4011BP	
IC4	V30-0497-10	LA1231N	
IC5	V30-0688-10	UPC1235C	
IC6	V30-0357-10	AN6135	
IC7	V30-0519-10	LA1245	
Q1	V03-1923-00	2SC1923	
Q2 -6	V03-0945-80	2SC945(A)(Q,P)	
Q3 -6	V03-0945-80	2SC945(A)(Q,P)	
Q7	V01-0733-40	2SA733(A)(Q,P)	
Q8	V03-0945-80	2SC945(A)(Q,P)	
Q11	V01-0733-40	2SA733(A)(Q,P)	
Q12	V03-0945-80	2SC945(A)(Q,P)	
Q13	V09-0144-11	2SK163(M)	
Q14	V03-2003-00	2SC2003	
Q15	V04-0330-00	2SD330	
Q16	V01-0733-40	2SA733(A)(Q,P)	
Q17	V03-0945-80	2SC945(A)(Q,P)	
Q21	V09-0124-10	2SK61	TE
Q22	V03-0945-80	2SC945(A)(Q,P)	TE
Q23	V09-0124-10	2SK61	
Q24 ,25	V09-0127-40	2SK105(H,J)	TE
Q26 -29	V03-0945-80	2SC945(A)(Q,P)	TE
Q29	V03-0945-80	2SC945(A)(Q,P)	
Q31 ,32	V03-0945-80	2SC945(A)(Q,P)	
Q31 -34	V03-0945-80	2SC945(A)(Q,P)	TE
Q40	V01-0733-40	2SA733(A)(Q,P)	
Q41 -44	V03-0945-80	2SC945(A)(Q,P)	TE
Q41 -46	V03-0945-80	2SC945(A)(Q,P)	
Q46	V03-0945-80	2SC945(A)(Q,P)	
Q47 -58	V01-0733-40	2SA733(A)(Q,P)	
-	W02-0091-05	FM FRONT END	*
-	W02-0092-05	FM FRONT END	*T
-	W02-0092-05	FM FRONT END	E
FM FRONT END (W02-009*-05)			
Q1,2	V03-2668-16	2SC2668	
Q3	V03-2669-16	2SC2669	
Q4	V09-0162-00	2SK241	
D1-4	V11-6102-70	SVC211	

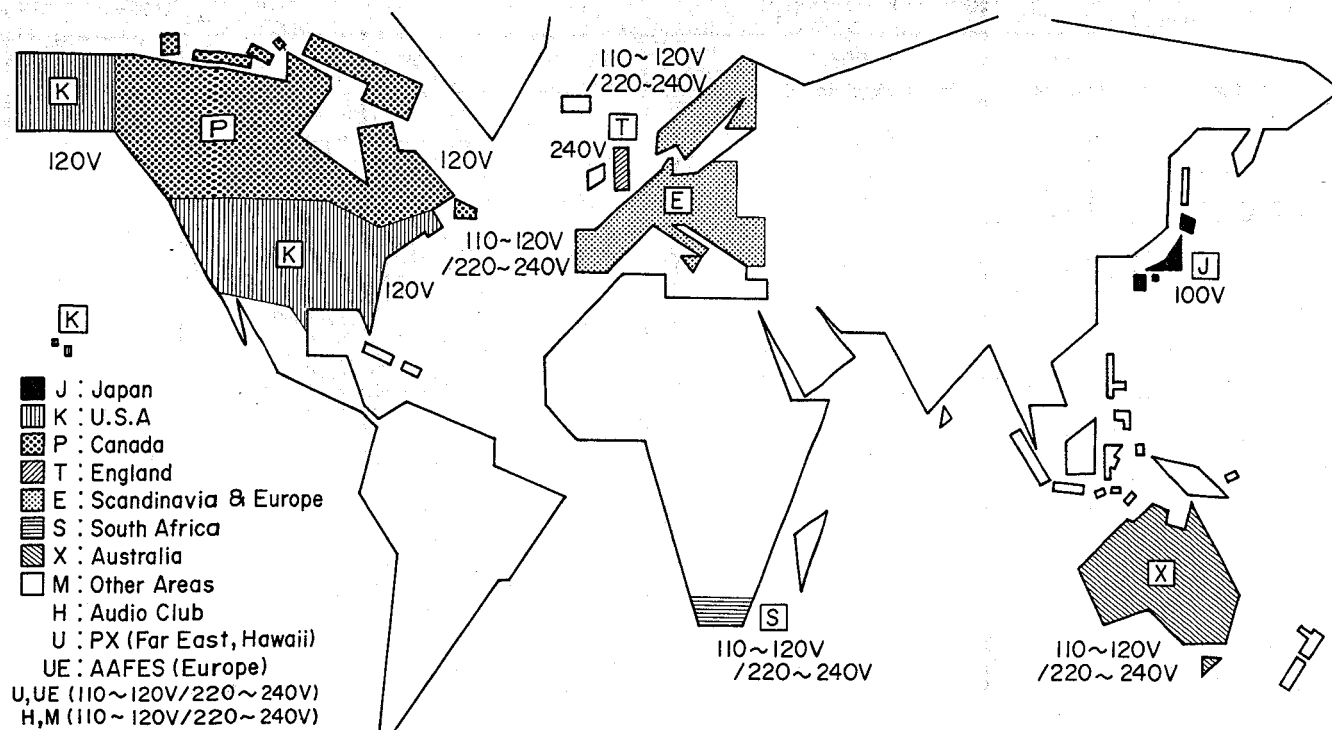
K: USA
P: Canada
T: England
E: Scandinavia and Europe
S: South Africa

X: Australia
H: Audio Plug
U: PX (Far East, Hawaii)
UE: AAFES (Europe)
M: Other Areas

K: X05-2140-11
U: X05-2140-81
X: X05-2140-71
E: X05-2142-71

-7X/L

WORLD MAP & AREA CODE



Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

There are no plan for producing units of S type.

A product of

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KT-7X/7XL

SERVICE MANUAL

SUPPLEMENT

This sheet contains information necessary to ensure the accuracy of exploded view. In

case of filing and for use in repairing the units, attach this to the KT-7X/7XL service manual.

★ Change point.

